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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,744	05/25/2005	Christophe Van Dongen	GLN-055US	3035
	590 02/01/2007 SS; BROWNING BUSHN	IAN P.C.	EXAM	INER
5718 WESTHEI	•	GOINS, DAVETTA WOODS		
SUITE 1800 HOUSTON, TX	77057		ART UNIT	PAPER NUMBER
,,			2612	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		02/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/518,744	VAN DONGEN, CHRISTOPHE				
		Examiner	Art Unit				
		Davetta W. Goins	2612				
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the	ne correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period or tree to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply but apply and will expire SIX (6) MONTHS, cause the application to become ABAND	ION. se timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
2a)□	· · · · · · · · · · · · · · · · · · ·	action is non-final.					
3)	·—·						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)🖂	Claim(s) 1-20 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[5) Claim(s) is/are allowed.						
	Claim(s) <u>1-20</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.	·				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		,				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	2) 🔛 Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
inform الصارد Pape	1) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/10/05. 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 7, 8, 14-16, recite the limitation "the forward and backward threshold values" in lines 6 and 7. There is insufficient antecedent basis for this limitation in the claim.
- 3. Claims 7-9, 14-17, would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6, 10-13 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Birnbach et al. (US Pat. 6,819,247 B2) Fischer (US Pat. 6,673,027 B2).

In reference to claim 1, Birnbach discloses a) the claimed inclinometer delivering a signal representative of the angle of inclination of the segment with respect to a vertical line, which is met by accelerometer 10 as part of a user monitor 18 for recording readings in 3 axes over a

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range of g forces (col. 4, lines 42-67), b) the claimed calculator receiving the signal and programmed to execute cyclically the operations of: obtaining a measurement of the angle of inclination, comparing this measurement to two stored threshold values of the angle. respectively corresponding to leaning positions in a first direction and a second opposite direction, which is met by the accelerometer 10 including a processor 20, capable of determining whether the acceleration detected by the device 10 has exceeded a threshold Q or less than a threshold R (col. 5, lines 12-43; col. 7, lines 40-67; col. 8, lines 1-33), and d) the claimed generating an indication of breaches of the threshold values, and indicating means, responding to the indication, to inform the person and/or the therapist, which is met by display 28 giving the wearer a visual indication as well as alarm 30 to give an audible alarm upon the accelerometer reaching preset threshold (col. 5, lines 66,67, col. 6, lines 1-11). Although Birnbach does not specifically disclose the claimed device is to detect the incorrect posture of a body, he does disclose the accelerometer is placed around the waist of the user to detect the change in velocity (acceleration) based on the compared threshold values that is set based on the risk level of the user and provide a necessary alarm (col. 10, lines 8-58). Fischer discloses posture alarm device attached to a user's body to determine when the user slumps beyond a threshold indicating the user's posture, the thresholds being determined by the micro processor and giving a feedback signal (acoustic or vibration), to the user (col. 7, lines 10-67; col. 8, lines 1-49). Since Birnbach discloses a device that's worn by a user that is capable of detecting the acceleration performed by the wearer and giving an indication to the user upon the detected acceleration reaching a threshold, it would have been obvious to one of ordinary skill in the art

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at the time of the invention to incorporate the teaching of determining the posture, as disclosed by Fischer, based on the preset threshold values that can be altered in Birnbach's device.

In reference to claim 2, Birnbach discloses the claimed inclinometer is an accelerometer, which is met by accelerometer 10 (col. 4, lines 42-67).

In reference to claim 3, Birnbach discloses the claimed interface for storing, the two threshold values of the angle of inclination in the calculator, which is met by processor 20 is capable of comparing different acceleration ranges, an alert given upon the acceleration being over a first value as well as the acceleration being compared to a second range (col. 7, lines 40-67; col. 8, lines 1-34). Although Birnbach does not disclose the claimed push-buttons used for storing the threshold values, he does disclose of a web base interface used by the user to set various parameters. The device includes different thresholds based on the user. Also a push-button may be actuated by the user to turn off the alarm (col. 8, lines 61-67; col. 9, lines 1-35; col. 10, lines 1-58). Fischer discloses a posture alarm that includes a microprocessor with an input means that may be used to set a threshold (col. 8, lines 50-67). Since Birnbach discloses a device in which different thresholds can be selected based on the user as well as the use of a user activate button, it would have been obvious to one of ordinary skill in the art at the time of the invention to include buttons as part to allow the user to select a threshold, as Fischer's input means, with Birnbach, to allow the device to be adjustable for different users.

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In reference to claim 4, Birnbach discloses the claimed light alarm, which is met by display 28 or alarm 30 with a flashing light (col. 6, lines 1-11).

In reference to claims 5, 11, Birnbach discloses the claimed indicating means include an acoustic alarm, which is met by loud audible alarm (col. 6, lines 1-11).

In reference to claims 6, 12, 13, although Birnbach does not specifically disclose the claimed indicating means include a vibrating alarm, he does disclose both a visual and/or audible alarm that may be given to warn the user of a threshold that has been reached (col. 5, lines 66, 67; col. 6, lines 1-5). Fischer discloses a posture alarm given to a wearer in the form of a vibration feedback (col. 8, lines 26-49). Since Birnbach discloses a worn device that will give the user an alarm upon the device detected a threshold, it would have been obvious to one of ordinary skill in the art at the time of the invention to include the teaching of a vibrating alarm, as disclosed by Fischer, with the system of Birnbach, as a means to inconspicuously alert the wearer that their posture needs to change.

In reference to claims 10, 18-20, although Birnbach does not specifically disclose the claimed characterized in that the positions are forward or backward leaning positions, he does disclose an accelerometer 10 that records readings in 3 axes over a range of g forces and to compare the readings to stored thresholds (col. 4, lines 42-65; col. 5, lines 1-51). Birnbach also discloses that the accelerometer 10 can be set to different parameters depending on the risk level of the user (col. 10, lines 8-45). Since Birnbach discloses an accelerometer that records movements in

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various directions and compared to threshold values to determine an alarm condition, it would have been obvious to one of ordinary skill in the art at the time of the invention to monitor only forward and/or backward motion that will indicate specific motion that should be monitored.

- 6. The prior art of record and not relied upon is considered pertinent to the applicant's disclosure as follows. Sclichter (US Pat. 6,146,312) and Petelenz et al. (US Pat. 6,433,690 B2), which disclose devices that monitor the change within an axes.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davetta W. Goins whose telephone number is 571-272-2957. The examiner can normally be reached on Mon-Fri with every other Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on 571-272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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D.W.G.

January 29, 2007